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**Document Number 50**

Entry 50 of 57

File: USPT

Oct 3, 1978

US-PAT-NO: 4118377

DOCUMENT-IDENTIFIER: US 4118377 A

TITLE: Polymerizing bis-maleimides

DATE-ISSUED: October 3, 1978

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
D'Alelio; Gaetano F.	South Bend	IN	N/A	N/A

US-CL-CURRENT: 526/236; 526/234, 526/256, 526/258, 526/262, 526/270,  
526/89

## ABSTRACT:

Processes for increasing the molecular weight of bis-maleimides are provided. The bis-maleimides are reacted with certain cyclic dienes to form reversible adducts. These adducts, upon elimination of the cyclic diene, yield an extension of the bis-maleimides to higher molecular weight polymers, ultimately to thermally stable, infusible polymers. The process can be interrupted to yield tractable polymers which are also convertible to cross-linked, infusible products. Modifications of the process include preparing the adducts in the presence of aprotic solvents as well as Bronsted acid salt catalysts, and the isolation of intermediate solid products.

15 Claims, 0 Drawing figures

Exemplary Claim Number: 1

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## Document Number 40

Entry 40 of 57

File: USPT

Jan 18, 1983

US-PAT-NO: 4369304

DOCUMENT-IDENTIFIER: US 4369304 A

TITLE: Curable resin composition of (1) polyfunctional cyanate ester, (2) acrylic or methacrylic ester and (3) maleimide

DATE-ISSUED: January 18, 1983

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gaku; Morio	Showamachi	N/A	N/A	JPX
Ikeguchi; Nobuyuki	Tokyo	N/A	N/A	JPX

US-CL-CURRENT: 528/322; 428/473.5, 525/185, 525/205, 525/230, 525/422, 528/117, 528/119, 528/170, 528/172, 528/211, 528/248, 528/253, 528/86

## ABSTRACT:

A curable resin composition comprising a mixture and/or a preliminary reaction product of (a) polyfunctional cyanate ester, prepolymer of the cyanate ester, or copreopolymer of the cyanate ester and an amine, (b) acrylic esters, methacrylic esters, prepolymers of acrylic esters, prepolymers methacrylic esters, coprepolymers of acrylic esters and methacrylic esters and mixtures thereof, and (c) a polyfunctional maleimide, prepolymer of the maleimide or copreopolymer of the maleimide and an amine are disclosed. Cured resin having excellent impact-resistance, adhesive power, heat-resistance and chemical-resistance can be prepared from the compositions.  
3 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

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**Document Number 27**

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File: USPT

Jan 29, 1985

US-PAT-NO: 4496695

DOCUMENT-IDENTIFIER: US 4496695 A

TITLE: Curable resin composition

DATE-ISSUED: January 29, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugio; Akitoshi	Saitama	N/A	N/A	JPX
Masu; Masanobu	Tokyo	N/A	N/A	JPX
Matunaga; Masatugu	Tonemachi	N/A	N/A	JPX

US-CL-CURRENT: 525/391; 525/395, 525/396

## ABSTRACT:

A curable resin composition comprising:

- (a) a polyphenylene ether resin,
- (b) a maleimide component and/or a cyanate ester component, and
- (c) an epoxy compound

is disclosed. The cured resin composition can give a cured resin having resistance to heat, solvent and moisture, adhering property and electrical properties.

11 Claims, 0 Drawing figures

Exemplary Claim Number: 1

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**Document Number 26**

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File: USPT

Feb 12, 1985

US-PAT-NO: 4499245

DOCUMENT-IDENTIFIER: US 4499245 A

TITLE: Curable resin composition

DATE-ISSUED: February 12, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ikeguchi; Nobuyuki	Tokyo	N/A	N/A	JPX
Kimbara; Hidenori	Tokyo	N/A	N/A	JPX

US-CL-CURRENT: 525/417; 525/185, 525/186, 525/419, 525/420, 525/908,  
528/170, 528/172 , 528/321, 528/322, 528/362, 528/363, 528/364, 528/423

## ABSTRACT:

A curable resin composition comprising a mixture and/or a preliminary reaction product of (a) at least one cyanate compound selected from the group consisting of polyfunctional cyanate esters, prepolymers of the cyanate esters, coprepolymers of the cyanate esters and an amine and mixtures thereof, (b) a polyhydantoin resin and optionally (c) at least one maleimide compound selected from the group consisting of polyfunctional maleimides, prepolymer of the maleimides, coprepolymers of the maleimides and an amine and mixtures thereof is disclosed.

3 Claims, 0 Drawing figures

Exemplary Claim Number: 1

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**Document Number 14**

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File: USPT

Oct 23, 1990

US-PAT-NO: 4965331

DOCUMENT-IDENTIFIER: US 4965331 A

TITLE: Curable resin compositions

DATE-ISSUED: October 23, 1990

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jackson; Roy J.	Houston	TX	N/A	N/A
Pigneri; Anthony M.	Houston	TX	N/A	N/A

US-CL-CURRENT: 526/262; 526/285, 526/333

## ABSTRACT:

New curable resin compositions comprise a (bis- or poly)-maleimide and a propargyl aromatic ether.

7 Claims, 0 Drawing figures

Exemplary Claim Number: 1

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**Document Number 13**

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File: USPT

Jul 23, 1991

US-PAT-NO: 5034279

DOCUMENT-IDENTIFIER: US 5034279 A

TITLE: Water-compatible coating composition

DATE-ISSUED: July 23, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wilson, Jr.; Thomas H.	St. Paul	MN	N/A	N/A
Pocius; Alphonsus V.	St. Paul	MN	N/A	N/A

US-CL-CURRENT: 428/457; 204/501, 523/414, 523/514, 525/523

## ABSTRACT:

Water-compatible compositions containing resins that contain nitrogen but are substantially free of mercaptan groups, primary amino groups, and secondary amino groups. The compositions are heat-cured at low temperatures using bis-maleimides or sparingly-soluble corrosion-inhibiting chromate pigments. The compositions preferably are used for cathodic electrophoretically-depositable coating applications. 14 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

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## Document Number 9

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File: USPT

Aug 11, 1992

US-PAT-NO: 5137977

DOCUMENT-IDENTIFIER: US 5137977 A

TITLE: Polymer composition

DATE-ISSUED: August 11, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Saitoh; Sunao	Fujisawa	N/A	N/A	JPX
Watanabe; Noboru	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 525/282; 525/259, 525/260, 525/263, 525/265, 525/284,  
525/293

## ABSTRACT:

A polymer composition comprising a polymer or a highly saturated polymer, an organic peroxide and a maleimide derivative, said polymer being produced by radical polymerization using a sulfur-free compound as an emulsifier and a terpene type compound as a molecular weight modifier and said highly saturated polymer being obtained by hydrogenating said polymer.

4 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

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**Document Number 10**

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File: USPT

Oct 22, 1985

US-PAT-NO: 4548986

DOCUMENT-IDENTIFIER: US 4548986 A

TITLE: Undercoating composition

DATE-ISSUED: October 22, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Takeshi	Nagaokakyo	N/A	N/A	JPX
Suzue; Seisuke	Ibaraki	N/A	N/A	JPX

US-CL-CURRENT: 525/66; 525/179, 525/180, 525/72

## ABSTRACT:

An undercoating composition for a fluorocarbon polymer coating comprising:

(a) a modified tetrafluoroethylene polymer in the form of particles of double-layer structure having a core and a shell, the core comprising a tetrafluoroethylene homopolymer or a copolymer of tetrafluoroethylene with a fluorine-containing .alpha.-olefin, the shell comprising a copolymer of tetrafluoroethylene and said fluorine-containing .alpha.-olefin copolymerized therewith in a larger amount than in the core,

(b) a copolymer of tetrafluoroethylene and said fluorine-containing .alpha.-olefin, and

(c) an auxiliary adhesive agent selected from the group consisting of polyimide, polybismaleimide, polyamideimide and aromatic polyamide.

5 Claims, 0 Drawing figures

Exemplary Claim Number: 1

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File: USPT

Jan 28, 1992

US-PAT-NO: 5084304

DOCUMENT-IDENTIFIER: US 5084304 A

TITLE: Process for coating metal strip by the coil coating process for the production of components exposed to high temperatures

DATE-ISSUED: January 28, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lienert; Klaus-Wilhelm	Hamburg	N/A	N/A	DEX
Schmitz; Arno	Nottuln	N/A	N/A	DEX

US-CL-CURRENT: 427/388.2; 427/409, 524/538

## ABSTRACT:

The invention relates to a process for coating metal strip by the coil coating process using coating materials consisting of high temperature resistant systems (polyesterimides, polyamidocarboxylic acids, polyamidimides, polyhydantoins and polybismaleimides), pigments and/or fillers, suitable auxiliary substances and additives as well as solvents or solvent mixtures. The coating material is used in a one-coat or two-coat application, only polyesterimides and polyhydantoins being used for the primers as high temperatures resistant systems, while any of the high temperature resistant systems listed are used in the topcoat.

The metal strip coated in this manner possesses good formability, good hardness, outstanding anticorrosion characteristics, outstanding resistance to chemicals, solvents, water, oil, shock and prolonged high temperatures, outstanding adhesion and resistance to stone impact, and is particularly suitable for the production of exhausts, silencers, exhaust air ducts, furnace and radiator claddings, grill utensils and other components exposed to high temperatures.

23 Claims, 0 Drawing figures

Exemplary Claim Number: 1

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